

CLAIMS

What is claimed is:

1. A flow-through valve comprising:
 - a valve housing having an outer wall portion connecting first and second axially offset end portions;
 - first and second inlet ports arranged on said first end portion;
 - an outlet port arranged on said second end portion;
 - a first moveable disk disposed in said housing and having a first control part, a first pass-thru port and a first actuating arm extending radially therefrom, said first moveable disk rotatable within said valve housing to selectively align said first control port with said first inlet port to said outlet port;
 - and
 - a second moveable disk disposed in said housing and having a second control port at a second pass-thru port, said second moveable disk rotatable within said valve housing to selectively align said second control port with said second inlet port so as to provide fluid communication from said second inlet port through said first pass-thru port and said second control port to said outlet port.
2. The flow-through valve of claim 1 wherein said first inlet port communicates with a first water source and wherein said second inlet port communicates with a second water source.

3. The flow-through valve of claim 1 wherein said first and second moveable disks are independently rotatable.

4. The flow-through valve of claim 3 wherein said actuating arms are accessible through a passage formed in said wall of said valve housing.

5. A flow-through valve comprising:

a valve housing having an outer cylindrical wall connecting first and second axially offset end portions to allow in-line fluid flow from said first end portion to said second end portion, a first and second inlet port arranged on said first end portion, an outlet port arranged on said second end portion;

a first fixed disk disposed in said housing and having an opening thereon;

a first moveable disk disposed in said housing and in fluid communication with said first fixed disk, said first moveable disk rotatable within said valve housing and cooperating with said first fixed disk to selectively control fluid communication from said first and second inlet port to said outlet port, said first moveable disk including a first actuating arm extending radially therefrom for selectively rotating said first moveable disk;

a second fixed disk disposed in said housing having an opening thereon; and

a second moveable disk disposed in said housing and in fluid communication with said second fixed disk, said second moveable disk rotatable

within said valve housing and cooperating with said second fixed disk to selectively control fluid communication from said second fixed disk to said outlet port, said second moveable disk including a second actuating arm extending radially therefrom for selectively rotating said second moveable disk.

6. The flow-through valve of claim 5 wherein said first inlet port communicates with a first water source and wherein said second inlet port communicates with a second water source.

7. The flow-through valve of claim 5 whereby rotation of said first moveable disk allows proportionate amounts of fluid to flow independently from said first and second inlet port to said second moveable disk.

8. The flow-through valve of claim 7 whereby rotation of said second moveable disk regulates the respective proportions of fluid flow from said first moveable disk to said outlet port.

9. The flow-through valve of claim 5 wherein said first and second actuating arms are accessible through a passage incorporated on said cylindrical wall of said valve housing.

10. A water faucet comprising:

a body having a base communicating with first and second inlet ports, a spout for discharging water from the faucet and an intermediate portion defining a neck connecting said base and said spout;

a valve cartridge interposed between said first and second inlet port and said outlet port, said valve cartridge comprising:

a valve body having an inlet communicating with said first and second inlet port;

a first moveable disk rotatable for controlling fluid communication from said first and second inlet to said spout;

a second moveable disk for controlling fluid communication from said first and second inlet to said spout, said second moveable disk disposed downstream from said first moveable disk;

a valve outlet axially offset from said valve inlet; and

first and second levers operably coupled with said first and second moveable disks respectively whereby rotation of said levers adjusts fluid flow from said first and second inlet to said spout.

11. The water faucet of claim 10 wherein said neck includes a first portion extending from said base, a second portion extending generally perpendicularly to said first portion and a third portion connecting said second portion to said spout.

12. The water faucet of claim 11 wherein said first and second levers are independently rotatable about said neck.

13. The water faucet of claim 12 wherein said first and second levers are rotatably coupled to said first portion of said neck.

14. The water faucet of claim 12 wherein said first and second levers are rotatably coupled to said second portion of said neck.

15. The water faucet of claim 11 wherein said first and second levers extend outwardly from said neck and are aligned at least when the faucet is in an off position.

16. The water faucet of claim 11 wherein said first and second levers extend outwardly from said neck and are opposed at least when the faucet is in an off position.

17. The water faucet of claim 10 wherein said first lever cooperates with said first moveable disk of said valve to control water flow from a first water source to said spout and said second lever cooperates with said second moveable disk of said valve to control water flow from a second water source to said spout.

18. The water faucet of claim 10 wherein said first lever cooperates with said first moveable disk of said valve to control proportionate volumes of water from each of said first and second inlet port to said second moveable disk and wherein said second lever cooperates with said second moveable disk to vary the proportion of water communicated from each of said first and second inlet port to said spout.

19. A flow-through valve kit comprising:

a valve housing including a first end portion having first and second inlet ports formed therethrough, a second end portion having an outlet port formed therethrough and an outer wall portion interconnecting said first and second end portions;

a first set of disks selectively positionable in said valve housing, said first set of disks including a first disk rotatably supported within said valve housing to operably control a flow rate of a first fluid through said valve housing and a second disk rotatably supported within said valve housing to operably control a flow rate of a second fluid through said valve housing; and

a second set of disks selectively positionable in said valve housing, said second set of disks including a third disk rotatably supported within the housing to operably control a flow rate of a fluid through said valve housing and a fourth disk rotatably supported within the housing to operably control a temperature of said fluid through said valve housing;

wherein a valve assembly is formed by selectively positioning one of said first and second sets of disks within said valve housing.

20. The flow-through valve kit of claim 19 wherein each of said first and second disks has an extension projecting through said valve housing to independently rotate said disk relative to said valve housing.

21. The flow-through valve kit of claim 20 wherein said first disk includes a first control port and a first pass-through port, said first disk rotatable within said valve housing to selectively align said first control port with said first inlet port and said outlet port, said first pass-through port operable to allow fluid communication between said first disk and said second disk.

22. The flow-through valve kit of claim 21 wherein said second disk includes a second control port and a second pass-through port, said second disk rotatable within said valve housing to selectively align said second control port with said second inlet port, said outlet port and said first pass-through port of said first disk, said second pass-through port operable to allow fluid communication between said first disk and said outlet port.

23. The flow-through valve kit of claim 20 wherein said first disk includes a first actuating arm extending radially therefrom for selectively rotating

said first disk and said second disk includes a second actuating arm extending radially therefrom for selectively rotating said second disk.

24. The flow-through valve kit of claim 19 wherein each of said third and fourth disks has an extension projecting through said valve housing to independently rotate said disk relative to said valve housing.

25. The flow-through valve kit of claim 24 wherein said third disk includes a first control port and a second control port, said first and second control ports operable to selectively control fluid communication between said first and second inlet ports and said outlet port.

26. The flow-through valve kit of claim 25 wherein said fourth disk includes a third control port and a fourth control port, said third and fourth control ports operable to selectively control fluid communication between said first movable disk and said outlet port.

27. The flow-through valve kit of claim 24 wherein said third disk includes a third actuating arm extending radially therefrom for selectively rotating said third disk and said fourth disk includes a fourth actuating arm extending radially therefrom for selectively rotating said fourth disk.

28. A water faucet comprising:

- a faucet body having an outlet;
- a flow through valve disposed in said faucet body, said flow through valve having a first port coupled to a supply line at a first end and a second port at a second end opposite said first end in fluid communication with said outlet, said flow through valve operable to regulate fluid flow in an axial direction therethrough; and
- a handle operably connected to said flow through valve and extending from said faucet body generally perpendicularly from said axial direction.

29. The water faucet of claim 28 wherein said flow through valve includes a valve body, a first disk, and a second disk, said first and second disk rotatable relative said valve body.

30. The water faucet of claim 29 wherein said first disk includes a first control port and a first pass-through port, said first control port operable to control fluid flow through said first disk and said first pass-through port operable to allow fluid communication between said first disk and said second disk.

31. The water faucet of claim 29 wherein said second disk includes a second control port and a second pass-through port, said second control port operable to control fluid flow through said second disk and said second pass-

through port operable to allow fluid communication between said first disk and said second disk.

32. The water faucet of claim 29 wherein said first disk includes a first extension projecting through said valve body, and said second disk includes a second extension projecting through said valve body.

33. The water faucet of claim 32 wherein said handle includes a first arm operable to engage said first extension to rotate said first disk and a second arm operable to engage said second extension to rotate said second disk independent of said first disk.

34. The water faucet of claim 33 wherein said first handle is operable to adjust a fluid flow rate through said flow through valve, and said second handle is operable to adjust a fluid temperature through said flow through valve.

35. The water faucet of claim 33 wherein said first handle is operable to adjust a flow rate of a first fluid through said flow through valve, and said second handle is operable to adjust a flow rate of a second fluid through said flow through valve.